

American Geotech, Inc.  
601 Ohio Avenue  
Charleston, WV 25302  
(304) 340-4277  
Fax 340-4278

**AMERICAN GEOTECH, INC.**  
**Geotechnical, Environmental and Testing Engineers**

**REPORT OF**  
  
**LIMITED ENVIRONMENTAL EXPLORATION**  
**EXISTING RAILROAD TRESTLE BETWEEN**  
**KANAWHA BOULEVARD, WEST AND MAIN STREET**  
**CHARLESTON, WEST VIRGINIA**

**Prepared For**

**CITY OF CHARLESTON**  
**CHARLESTON, WEST VIRGINIA**  
**MAY - 2009**

(This report contains 4 pages, plus appendices)

# **AMERICAN GEOTECH, INC.**

**GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS**

601 OHIO AVENUE  
CHARLESTON, WV 25302  
(304) 340-4277  
Fax (304) 340-4278

May 11, 2009

Mr. Chris Knox  
The City of Charleston  
P.O. Box 2749  
Charleston, WV 25330

**Re: Report of Limited Environmental Exploration  
Existing Railroad Trestle between  
Kanawha Boulevard, West and Main Street  
Charleston, West Virginia**

Dear Mr. Knox:

In accordance with your request and authorization, American Geotech, Inc. (AGI) is pleased to submit our report for the limited environmental exploration of the site for the above referenced project in Charleston, West Virginia. The work was authorized by Mr. Chris Knox, and was performed in accordance with our verbal agreement.

## **Project Information**

This report covers the limited environmental exploration of the existing elevated C&O railroad trestle, which is now out of service. The existing railroad trestle alignment runs generally over the abandoned alignment of Georgia Street, and extends from Kanawha Boulevard northeastward to Main Street (passing over 2<sup>nd</sup> Avenue and Grant Avenue). The trestle consists of a steel superstructure with wooden ties for the section between Kanawha Boulevard and 2<sup>nd</sup> Avenue, and a timber frame beyond the northern side of 2<sup>nd</sup> Avenue. The trestle is bounded by the future West Side Elementary School site, residential and commercial properties to the west, residential and commercial properties to the east, Main Street to the north and Kanawha Boulevard to the south. It is proposed to adapt and convert the existing railroad trestle to a pedestrian walkway, which would allow pedestrian traffic to cross the Kanawha River. The trestle was constructed in the early 1900's by the New York Central Railroad.

## **Subsurface Exploration**

Five (5) soil test borings (EB-1 to EB-5) were performed from April 30 to May 1, 2009, at the approximate locations shown on the attached Test Boring Location Plan. Test borings EB-1 to EB-3

were advanced using 3.25-inch inside diameter hollow-stem augers and a truck-mounted drill rig. The samples were obtained using a 2.0-inch exterior diameter split spoon sampler, which was driven into the soil by a 140-pound automatic hammer falling a distance of 30 inches. Borings EB-4 and EB-5 were completed using hand sampling equipment. The representative material samples were obtained at the intervals shown on the test boring logs attached to this report. The logs reference the depth, thickness, and visual description of the encountered soil strata, as well as the sample identification data.

The sampling tools were decontaminated before commencement of the sampling activities and between each sample interval. The decontamination procedures included washing the sampling tools in a non-phosphatic detergent solution, followed by a potable water rinse. The sampling tools were then rinsed with de-ionized water. The representative samples obtained in the stainless-steel split spoon sampler were split vertically, with half of the sample being placed in a glass sample jar for later material classification and the other half collected in a clean 4 oz. glass laboratory jar and sealed with a Teflon lined lid for possible laboratory analysis. Field personnel wore disposal latex gloves to ensure that no outside contaminants were introduced into the material samples when handled. The representative samples selected for laboratory analysis were placed on ice in a cooler and preserved at 4° C for transportation to the laboratory.

### **Subsurface Conditions**

As stated, five (5) soil borings (EB-1 to EB-5) were drilled below the existing trestle at the approximate locations shown on the Test Boring Location Plan. Approximately 6 inches of topsoil materials were present at the surface at most test boring locations. Fill material was encountered in soil test borings EB-4 and EB-5 to depths of approximately 2.5 to 3.0 ft. below the present ground surface (bgs). In general, the subsurface profile is described as unengineered fill materials underlain by natural alluvial soils, consisting of silty clay materials.

The existing fill materials in test borings EB-4 and EB-5 were described as dark brown, black and gray clayey gravel and clayey sand with gravel. The fill materials were noted as moist to damp. The referenced fill soil strata extended to depths ranging from 2.5 feet to 3.0 feet bgs, whereupon natural alluvial soil deposits were encountered.

The natural soil deposits in all test borings consisted of sandy and silty clay. This material stratum extended to the completion depths ranging from 6.0 to 9.5 feet bgs. The colors noted in these strata included brown and gray, and the materials were consistently described as moist.

Groundwater was not encountered, either during or at completion of the drilling, in any of the test borings. We should state that fluctuations in the groundwater table, as well as perched or trapped water, can occur as a result of seasonal variations in precipitation, evaporation, overland runoff, or other factors not immediately apparent at the time of our exploration.

## Laboratory Analysis

Nineteen (19) representative material samples (a sample from each sampled interval) were prepared and submitted for laboratory analysis. The laboratory sample identification assigned to the samples on the chain-of-custody identifies the test boring and sample number from the boring logs (e.g. EB-2-3). The scope-of-services for the laboratory testing was defined by the client and included performing analyses on every recovered sample, from the ground surface to the completion depth, to evaluate the possible presence and vertical extent of any residual contamination.

The soil samples were submitted to A C & S, Inc., located in Nitro, West Virginia (WV-DEP Certificate #010). Most of the samples were analyzed for the presence of total cresols (*o/m/p*) using EPA method 8270D, and two (2) samples were analyzed for full range semi volatile organic compounds (s-VOC's) using EPA method 8270C. The current *de minimis* RBC levels and the laboratory analytical results for the detected compounds are summarized in Table 2. The laboratory data sheets, which list the analytical Method Detection Limits (MDL's), and the chain-of-custody form have been included at the end of this report.

Table 2  
Screening Levels and Analytical Results of Soil Samples (ppm)

Parameter	VRP <i>de minimis</i> Screening Levels	EB-4-1 0.0'-1.5'	EB-5-1 0.0'-2.0'
Total Cresol	200	ND	ND
Benzo(a)anthracene	29	2.77	ND
Benzo(a)pyrene	2.9	7.34	0.83
Benzo(b)fluoranthene	29	16.2	1.82
Benzo(ghi)perylene	23,000	3.97	ND
Benzo(k)fluoranthene	290	4.47	1.75
Chrysene	2,900	4.65	1.12
Fluoranthene	30,000	5.18	ND
Indeno(1,2,3-cd)pyrene	29	4.07	ND
Phenanthrene	410,000	ND	1.03
Pyrene	54,000	6.18	1.61

ND=Not detected.

The screening levels used for comparison in Table 2 were obtained from the WV DEP Voluntary Remediation Program De Minimis Standards Table 60-3B (July 2008) for industrial sites. Total cresol (*o/m/p*) was not detected in any of the representative laboratory samples above the method detection limits (MDL). Based upon the results of the laboratory analytical testing, residual

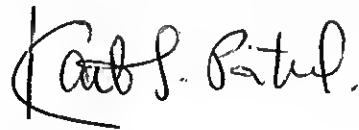
contamination was present above the MDL's in samples EB-4-1 and EB-5-1. The detected contamination at these locations consists of a specific group of s-VOC's. This group of sixteen semi-volatile organics compounds is classified as poly-aromatic hydrocarbons (PAH). PAH is a very common contaminant found on railroad sites and results from the combustion of wood, coal and gasoline/diesel fuels, use of coal-tar based materials in railroad equipment, and from creosote. As shown in Table 2, essentially all of the detected PAH related contaminants were well below the current WV DEP screening levels for industrial sites. (However, benzo(a)pyrene was present in sample EB-4-1 at a concentration of 7.34 ppm, which is above the *de minimis* level of 2.9 ppm.)

Based on the presence of PAH's in the surface samples from borings EB-4 and EB-5, it appears that the soil materials at these boring locations have been impacted by the use of the site for railroad applications. (It is our opinion that the potential risk associated with ambient street level exposure to the detected compounds is relatively low.) We recommend that the results of this limited exploration be conveyed to the appropriate regulatory agency for review, to determine what additional assessment is needed.

We appreciate the opportunity of providing these services to you. If you have any questions or require further services, please contact our office at (304) 340-4277.

Respectfully Submitted,

AMERICAN GEOTECH, INC.



Kanti S. Patel, P.E.  
Principal Engineer



Ryan D. Jackson, C.E.I.  
Environmental Scientist

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# TEST BORING LOCATION

*American Geotech, Inc.  
601 Ohio Avenue  
Charleston, West Virginia 25302*





**TEST BORING LOCATION PLAN**  
RAILROAD TRESTLE/PEDESTRIAN WALKWAY  
KANAWHA BLVD, W TO MAIN STREET  
CHARLESTON, WEST VIRGINIA

**AMERICAN GEOTECH, INC.**  
601 OHIO AVENUE  
CHARLESTON, WV 25302  
(304) 340-4277

DATE	5/8/09	SCALE	NTS
DRAWN BY	SAMB	CHK'D BY	KSP
ADAPTED BY	RDJ	SHEET	1 OF 1

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# Soil Test Boring Logs

*American Geotech, Inc.  
601 Ohio Avenue  
Charleston, West Virginia 25302*



# Test Boring Log: Terminology and Symbols

## Terminology

### Grain Size

Soil Fraction		Particle Size	U.S. STD. Sieve Size
Boulders		Larger than 12"	Larger than 12"
Cobbles		3" to 12"	3" to 12"
Gravel	Coarse	¾" to 3"	¾" to 3"
	Fine	4.75 mm to ¾"	#4 to #10
Sand	Coarse	2.00 to 4.75 mm	#10 to #40
	Medium	0.425 to 2.00 mm	#40 to #100
	Fine	0.075 to 0.425 mm	#200 to #400
Fines	Clays & Silts	smaller than 0.075 mm	smaller than #200

Plasticity characteristics differentiate between silts and clays

### Relative Density

Term	"N" Value
very loose	0 - 4
loose	5 - 10
medium dense	11 - 30
dense	31 - 50
very dense	over 50

### Consistency

Term	ID Procedures	"N" Value
Soft	Easily penetrated by thumb	0 - 4
Medium Stiff	Penetrated by thumb with moderate effort	5 - 8
Stiff	Penetrated by thumb with great effort	9 - 15
Very Stiff	Readily indented by thumbnail	16 - 30
Hard	Indented by thumbnail with difficulty	31 - 50
Very Hard		over 50

### Relative Moisture Description

Dry	Soil noticeably below optimum moisture
Moist	near optimum, but less than liquid limit
Damp	near or exceeding liquid limit
Wet	soil below water table

## Symbols

### Drilling and Sampling

RC - Rock Coring: Sizes AW, BW, NW, NQ  
 RQD - Rock Quality Designator  
 DC - Drive Casing  
 HSA - Hollow Stem Auger  
 FA - Flight Auger  
 AG - Auger  
 HA - Hand Auger  
 SS - 2" diameter Split Barrel Sampler  
 ST - 3" diameter Thin-Walled Tube Sampler  
 AS - Auger Sample  
 WS - Wash Sample  
 NR - No Recovery  
 S - Sounding  
 ATV - All Terrain Vehicle

### Laboratory Tests

PP - Pocket Penetrometer Reading, Tons/ft<sup>2</sup>  
 QU - Unconfined Strength, Tons/ft<sup>2</sup>  
 W - Moisture Content, %  
 LL - Liquid Limit, %  
 PL - Plastic Limit, %  
 D - Dry Unit Weight, lbs/ft<sup>3</sup>

### Standard Penetration Test

The penetration resistance, or N-value as it is commonly referred to, is the summation of the number of blows required to drive the last two successive 6" penetrations of the 2" diameter -18" long split barrel sampler. The sampler is driven with a 140 lb. weight falling 30". The standard penetration test is performed in compliance with procedures as set forth in ASTM D-1586

### Water Level Measurement

NW - No water encountered  
 WD - While drilling  
 BCR - Before casing removal  
 ACR - After casing removal  
 CW - Caved and wet  
 CM - Caved and moist  
 BP - Backfilled upon completion

# LOG OF ENVIRONMENTAL TEST BORING

Client:	City of Charleston	Boring Number:	EB-1
Project:	Existing Railroad Trestle - Charleston, WV	Start Date:	4/30/09
Boring Location:	As shown on plan	Comp. Date:	4/30/09
Ref. Elevation:	None available	Job Number:	

Elev. (Ft)	Depth (Ft)	Description of Material	SAMPLE					PID PPMV
			NO.	Type	Depth (feet)	Blows/6"	Rec.	
	0.0							
		0.5'    Topsoil.						
	0.5							
			1	ss	0.0' - 1.5'			
		9.0'    Brown sandy to silty clay, moist.	2	ss	2.5' - 4.0'			
			3	ss	5.0' - 7.0'			
			4	ss	7.5' - 9.5'			
	9.5							
		Boring Completed.						

General Notes		<b>AMERICAN GEOTECH, INC.</b> 601 Ohio Avenue Charleston, West Virginia 25302 (304) 340-4277	Water Level Observations	
Driller:	J. Neal		Immediate (Ft): NW	
Rig No.	CME-55		At Completion (Ft): NW	
Rig Type:	Truck		After (hrs.): BP	Feet: NW
Method:	HSA/SS		Water Used in Drilling (Ft): NW	

**LOG OF ENVIRONMENTAL TEST BORING**

Client: City of Charleston

Boring Number: EB-2

Project: Existing Railroad Trestle - Charleston, WV

Start Date: 4/30/09

Boring Location: As shown on plan

Comp. Date: 4/30/09

Ref. Elevation: None available

Job Number:

Elev. (Ft)	Depth (Ft)	Description of Material	SAMPLE					PID PPMV
			NO.	Type	Depth (feet)	Blows/6"	Rec.	
	0.0	0.5' Topsoil.						
	0.5							
		9.0' Brown to brown and gray silty clay, moist.	1	SS	0.0' - 2.0'			
			2	SS	2.5' - 4.5'			
			3	SS	5.0' - 7.0'			
			4	SS	7.5' - 9.5'			
	9.5	Boring Completed.						

## General Notes

Driller: J. Neal

Rig No. CME-55

Rig Type: Truck

Method: HSA/SS

**AMERICAN GEOTECH, INC.**

601 Ohio Avenue

Charleston, West Virginia 25302

(304) 340-4277

## Water Level Observations

Immediate (Ft): NW

At Completion (Ft): NW

After (hrs.): BP

Feet: NW

Water Used in Drilling (Ft): NW

## LOG OF ENVIRONMENTAL TEST BORING

Client:	City of Charleston	Boring Number:	EB-3
Project:	Existing Railroad Trestle - Charleston, WV	Start Date:	4/30/09
Boring Location:	As shown on plan	Comp. Date:	4/30/09
Ref. Elevation:	None available	Job Number:	

Elev. (Ft)	Depth (Ft)	Description of Material	SAMPLE					PID PPMV
			NO.	Type	Depth (feet)	Blows/6"	Rec.	
	0.0	0.5' Topsoil.						
	0.5							
		9.0' Brown to brown and gray silty clay, moist.	1	SS	0.0' - 2.0'			
			2	SS	2.5' - 4.5'			
			3	SS	5.0' - 7.0'			
			4	SS	7.5' - 9.5'			
	9.5	Boring Completed.						

General Notes		<b>AMERICAN GEOTECH, INC.</b> 601 Ohio Avenue Charleston, West Virginia 25302 (304) 340-4277	Water Level Observations	
Driller:	J. Neal		Immediate (Ft): NW	
Rig No.	CME-55		At Completion (Ft): NW	
Rig Type:	Truck		After (hrs.): BP	Feet: NW
Method:	HSA/SS		Water Used in Drilling (Ft): NW	

# LOG OF ENVIRONMENTAL TEST BORING

Client:	City of Charleston	Boring Number:	EB-4
Project:	Existing Railroad Trestle - Charleston, WV	Start Date:	4/30/09
Boring Location:	As shown on plan	Comp. Date:	4/30/09
Ref. Elevation:	None available	Job Number:	

Elev. (Ft)	Depth (Ft)	Description of Material	SAMPLE					PID PPMV
			NO	Type	Depth (feet)	Blows/6"	Rec	
	0.0	0.5' Topsoil.						
	0.5							
	2.5'	Dark brown to black clayey gravel (FILL), damp.	1	ss	0.0' - 1.5'			
			2	ss	1.5' - 3.0'			
	3.0							
	3.0'	Brown and gray silty clay, moist.	3	ss	3.0' - 4.5'			
			4	ss	4.5' - 6.0'			
	6.0							
		Boring Completed.						

General Notes		<b>AMERICAN GEOTECH, INC.</b> 601 Ohio Avenue Charleston, West Virginia 25302 (304) 340-4277	Water Level Observations	
Driller:	J. Neal		Immediate (Ft): NW	
Rig No.			At Completion (Ft): NW	
Rig Type:	Hand		After (hrs.): BP	Feet: NW
Method:	HA/SS		Water Used in Drilling (Ft): NW	



# LOG OF ENVIRONMENTAL TEST BORING

Client: City of Charleston Boring Number: EB-5

Project: Existing Railroad Trestle - Charleston, WV Start Date: 5/1/09

Boring Location: As shown on plan Comp. Date: 5/1/09

Ref. Elevation: None available Job Number:

Elev. (Ft)	Depth (Ft)	Description of Material	SAMPLE					PID PPMV
			NO.	Type	Depth (feet)	Blows/6"	Rec.	
	0.0							
	3.0'	Dark brown and gray clayey sand with gravel (FILL), moist.	1	ss	0.0' - 2.0'			
			2	ss	2.0' - 4.0'			
	3.0							
	3.0'	Brown and gray silty clay, moist.	3	ss	4.0' - 6.0'			
	6.0							
		Boring Completed.						

General Notes		<b>AMERICAN GEOTECH, INC.</b> 601 Ohio Avenue Charleston, West Virginia 25302 (304) 340-4277	Water Level Observations	
Driller:	J. Neal		Immediate (Ft): NW	
Rig No.			At Completion (Ft): NW	
Rig Type:	Hand		After (hrs.): BP	Feet: NW
Method:	HA/SS		Water Used in Drilling (Ft): NW	

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# ANALYTICAL RESULTS

*American Geotech, Inc.  
601 Ohio Avenue  
Charleston, West Virginia 25302*



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • EPC • Tank Cleaning

## Report of Analysis

**Name:** American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

**Sample Date:** 4/30/2009 09:15  
**Receipt Date:** 4/30/2009 15:15  
**Report Date:** 5/6/2009

**Sample ID#:** 09970882  
**Sample Source:** Grab  
**Client Sample ID:** EB-1, S-1, 0'-1.5'  
**Site:** City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 15:28		SW 8270D	PMV

## QC Data by Sample:

Sample ID: **09970882**

Report Date: **5/6/2009**

QC Type	Result	Units	Batch
2-Fluorobiphenyl	83	% Rec.	2697
Terphenyl-d14	86	% Rec.	2697
Nitrobenzene-d5	81	% Rec.	2697

Reviewed by:

Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

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## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302  
Sample Date: 4/30/2009 09:25  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/6/2009

Sample ID#: 09970883  
Sample Source: Grab  
Client Sample ID: EB-1, S-2, 2.5'-4'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 16:33		SW 8270D	PMV

## QC Data by Sample:

Sample ID: 09970883

Report Date: 5/6/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	83	% Rec.	2698
Terphenyl-d14	82	% Rec.	2698
Nitrobenzene-d5	74	% Rec.	2698

Reviewed by:

Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302  
Sample Date: 4/30/2009 09:35  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/6/2009

Sample ID#: 09970884  
Sample Source: Grab  
Client Sample ID: EB-1, S-3, 5'-7'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 17:37		SW 8270D	PMV

## QC Data by Sample:

Sample ID: 09970884

Report Date: 5/6/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	79	% Rec.	2699
Terphenyl-d14	82	% Rec.	2699
Nitrobenzene-d5	78	% Rec.	2699

Reviewed by:

Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 09:45

Receipt Date: 4/30/2009 15:15

Report Date: 5/6/2009

Sample ID#: 09970885  
Sample Source: Grab  
Client Sample ID: EB-1, S-4, 7.5'-9'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 18:42		SW 8270D	PMV

## QC Data by Sample:

Sample ID: 09970885

Report Date: 5/6/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	85	% Rec.	2700
Terphenyl-d14	88	% Rec.	2700
Nitrobenzene-d5	80	% Rec.	2700

Reviewed by:

Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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# AC & S, Incorporated

Serving the chemical industry since 1986  
Specialty Chemical - Laboratory Services - Rail Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970886  
Sample Source: Grab  
Client Sample ID: EB-2, S-1, 0-2'  
Site: City of Charleston Railroad Trussel

Sample Date: 4/30/2009 10:00  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/6/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 19:47		SW 8270D	PMV

## QC Data by Sample:

Sample ID: 09970886

Report Date: 5/6/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	81	% Rec.	2701
Terphenyl-d14	85	% Rec.	2701
Nitrobenzene-d5	76	% Rec.	2701

Reviewed by:

Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
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ND = Not Detected  
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# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 10:10

Receipt Date: 4/30/2009 15:15

Report Date: 5/6/2009

Sample ID#: 09970887  
Sample Source: Grab  
Client Sample ID: EB-2, S-2, 2.5'-4.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 20:51		SW 8270D	PMV

## QC Data by Sample:

Sample ID: 09970887

Report Date: 5/6/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	91	% Rec.	2702
Terphenyl-d14	93	% Rec.	2702
Nitrobenzene-d5	91	% Rec.	2702

Reviewed by:

Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986  
Specialty Chemistry • Laboratory Services • Risk Remediation

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302  
Sample Date: 4/30/2009 10:20  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/6/2009

Sample ID#: 09970888  
Sample Source: Grab  
Client Sample ID: EB-2, S-2, 5'-7'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/05/09 21:57		SW 8270D	PMV

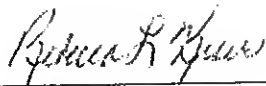
## QC Data by Sample:

Sample ID: 09970888

Report Date: 5/6/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	86	% Rec.	2703
Terphenyl-d14	87	% Rec.	2703
Nitrobenzene-d5	86	% Rec.	2703

Reviewed by:

  
Rebecca Kiser

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 10:30  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Sample ID#: 09970889  
Sample Source: Grab  
Client Sample ID: EB-2, S-4, 7.5'-9.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 13:11		SW 8270D	PMV

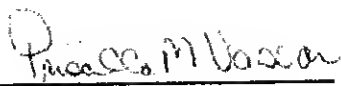
## QC Data by Sample:

Sample ID: 09970889

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	62	% Rec.	2747
Terphenyl-d14	78	% Rec.	2747
Nitrobenzene-d5	81	% Rec.	2747

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

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# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970890  
Sample Source: Grab  
Client Sample ID: EB-3, S-1, 0'-2'  
Site: City of Charleston Railroad Trussel

Sample Date: 4/30/2009 10:50  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 13:53		SW 8270D	PMV

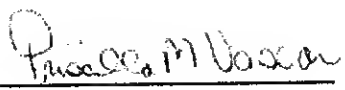
## QC Data by Sample:

Sample ID: 09970890

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	79	% Rec.	2748
Terphenyl-d14	76	% Rec.	2748
Nitrobenzene-d5	66	% Rec.	2748

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemistry - Laboratory Services - Bulk Tank Cleaning

## Report of Analysis

**Name:** American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

**Sample ID#:** 09970891  
**Sample Source:** Grab  
**Client Sample ID:** EB-3, S-2, 2.5'-4.5'  
**Site:** City of Charleston Railroad Trussel

**Sample Date:** 4/30/2009 11:00  
**Receipt Date:** 4/30/2009 15:15  
**Report Date:** 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 14:35		SW 8270D	PMV

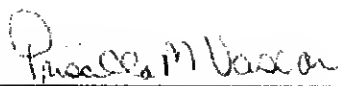
## QC Data by Sample:

Sample ID: 09970891

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	88	% Rec.	2749
Terphenyl-d14	87	% Rec.	2749
Nitrobenzene-d5	102	% Rec.	2749

Reviewed by:



Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

**Name:** American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

**Sample ID#:** 09970892  
**Sample Source:** Grab  
**Client Sample ID:** EB-3, S-3, 5'-7'  
**Site:** City of Charleston Railroad Trussel

**Sample Date:** 4/30/2009 11:15

**Receipt Date:** 4/30/2009 15:15

**Report Date:** 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles							
Total Cresol	ND	mg/kg	1.5	05/07/09 15:17		SW 8270D	PMV

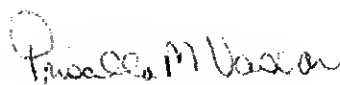
## QC Data by Sample:

Sample ID: **09970892**

Report Date: **5/8/2009**

QC Type	Result	Units	Batch
2-Fluorobiphenyl	127	% Rec.	2750
Terphenyl-d14	113	% Rec.	2750
Nitrobenzene-d5	98	% Rec.	2750

Reviewed by:



Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

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Specialty Chemicals • Laboratory Services • Risk Assessment

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302  
Sample Date: 4/30/2009 11:30  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Sample ID#: 09970893  
Sample Source: Grab  
Client Sample ID: EB-3, S-4, 7.5'-9.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 15:59		SW 8270D	PMV


## QC Data by Sample:

Sample ID: 09970893

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	110	% Rec.	2751
Terphenyl-d14	106	% Rec.	2751
Nitrobenzene-d5	124	% Rec.	2751

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chem. Co. • Laboratory Services • EPC • Tank Cleaning

## Report of Analysis

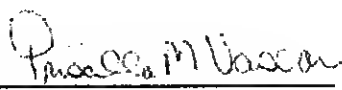
Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 13:00  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Sample ID#: 09970894  
Sample Source: Grab  
Client Sample ID: EB-4, S-1, 0'-1.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles							
1,2,4,5-Tetrachlorobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
1,3,5-Trinitrobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
1,4-Naphthoquinone	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
1,4-Phenylenediamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
1-Naphthylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,3,4,6-Tetrachlorophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,4,5-Trichlorophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,4,6-Trichlorophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,4-Dichlorophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,4-Dimethylphenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,4-Dinitrophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,4-Dinitrotoluene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,6-Dichlorophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2,6-Dinitrotoluene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Acetylaminofluorene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Chloronaphthalene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Chlorophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Methyl-4,6-dinitrophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Methylnaphthalene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Naphthylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Nitroaniline	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Nitrophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
2-Picoline	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
3,3'-Dichlorobenzidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
3,3'-Dimethylbenzidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
3-Methylcholanthrene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

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# AC & S, Incorporated

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Specialty Chemical • Laboratory Services • Bulk Tank Cleaning

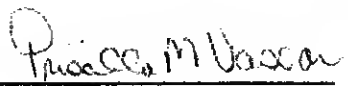
## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302  
Sample Date: 4/30/2009 13:00  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Sample ID#: 09970894  
Sample Source: Grab  
Client Sample ID: EB-4, S-1, 0'-1.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
<b>Semi Volatiles</b>							
3-Nitroaniline	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Aminobiphenyl	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Bromophenyl phenyl ether	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Chloro-3-methylphenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Chloroaniline	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Chlorophenyl phenyl ether	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Nitroaniline	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Nitrophenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
4-Nitroquinoline-1-oxide	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
5-Nitro-o-Toluidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
a,a'-Dimethylphenethylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Acenaphthene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Acenaphthylene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Acetophenone	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Aniline	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Anthracene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Azobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzo(a)anthracene	2.77	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzo(a)pyrene	7.34	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzo(b)fluoranthene	16.2	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzo(ghi)perylene	3.97	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzo(k)fluoranthene	4.47	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzoic Acid	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Benzyl Alcohol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Testing • Laboratory Services • Risk Management


## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302  
Sample Date: 4/30/2009 13:00  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Sample ID#: 09970894  
Sample Source: Grab  
Client Sample ID: EB-4, S-1, 0'-1.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
<b>Semi Volatiles</b>							
Bis (2-chloroethyl) ether	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Bis (2-ethylhexyl) phthalate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Bis(2-chloroethoxy)methane	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Bis(2-chloroisopropyl)ether	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Butyl benzyl phthalate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Carbazole	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Chrysene	4.65	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Dibenzo(a,h)anthracene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Dibenzofuran	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Diethyl phthalate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Dimethyl phthalate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Di-n-butyl phthalate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Di-n-octyl phthalate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Diphenylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Ethyl Methanesulfonate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Fluoranthene	5.18	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Fluorene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Hexachlorobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Hexachlorobutadiene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Hexachlorocyclopentadiene	ND	mg/kg	1	05/07/09 16:42		SW 8270D	PMV
Hexachloroethane	ND	mg/kg	1	05/07/09 16:42		SW 8270D	PMV
Hexachloropropene	ND	mg/kg	1	05/07/09 16:42		SW 8270D	PMV
Indeno(1,2,3-cd)pyrene	4.07	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Isophorone	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Isosafrole	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
m/p-Cresol	ND	mg/kg	1	05/07/09 16:42		SW 8270D	PMV

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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# AC & S, Incorporated

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Soil & Air Sampling • Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 13:00

Receipt Date: 4/30/2009 15:15

Report Date: 5/8/2009

Sample ID#: 09970894  
Sample Source: Grab  
Client Sample ID: EB-4, S-1, 0'-1.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles							
m-Dinitrobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Methapyrilene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Methyl Methanesulfonate	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Naphthalene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Nitrobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosodiethylamine	ND	mg/kg	1	05/07/09 16:42		SW 8270D	PMV
N-Nitrosodimethylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosodi-n-butylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitroso-di-n-propylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosodiphenylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosomethylethylamine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosomorpholine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosopiperidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
N-Nitrosopyrrolidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
o-Cresol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
o-Toluidine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
p-(Dimethylamino)azobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Pentachlorobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Pentachloronitrobenzene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Phenacetin	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Phenanthrene	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Pbenol	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Pyrene	6.18	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Pyridine	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Safrole	ND	mg/kg	0.5	05/07/09 16:42		SW 8270D	PMV
Total Cresol	ND	mg/kg	1.5	05/07/09 16:42		SW 8270D	PMV

Reviewed by:

*Priscilla M Vassar*

Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

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# AC & S, Incorporated

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Specialty Chemicals • Laboratory Services • Bulk Tank Cleaning

## QC Data by Sample:

Sample ID: **09970894**

Report Date: **5/8/2009**

QC Type	Result	Units	Batch
2,4,6-Tribromophenol	58	% Rec.	2752
2-Fluorobiphenyl	72	% Rec.	2752
2-Fluorophenol	99	% Rec.	2752
Nitrobenzene-d5	77	% Rec.	2752
Phenol-d5	125	% Rec.	2752
Terphenyl-d14	70	% Rec.	2752

Reviewed by:



Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemical • Laboratory Services • R.I. Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970895  
Sample Source: Grab  
Client Sample ID: EB-4, S-2, 1.5'-3'  
Site: City of Charleston Railroad Trussel

Sample Date: 4/30/2009 13:10  
Receipt Date: 4/30/2009 15:15  
Report Date: 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles							
Total Cresol	ND	mg/kg	1.5	05/07/09 17:24		SW 8270D	PMV

## QC Data by Sample:

Sample ID: 09970895

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	37	% Rec.	2753
Terphenyl-d14	42	% Rec.	2753
Nitrobenzene-d5	37	% Rec.	2753

Reviewed by:



Priscilla Vassar

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Nitro, WV 25143  
304-755-0536

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# AC & S, Incorporated

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Specialty Chemical • Laboratory Services • Soil Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 13:20

Receipt Date: 4/30/2009 15:15

Report Date: 5/8/2009

Sample ID#: 09970896  
Sample Source: Grab  
Client Sample ID: EB-4, S-3, 3'-4.5'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles							
Total Cresol	ND	mg/kg	1.5	05/07/09 18:06		SW 8270D	PMV

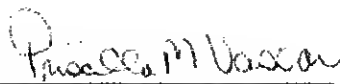
## QC Data by Sample:

Sample ID: 09970896

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	33	% Rec.	2754
Terphenyl-d14	90	% Rec.	2754
Nitrobenzene-d5	84	% Rec.	2754

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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\* = Above Specified Limit

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# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Rail Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 4/30/2009 13:30

Receipt Date: 4/30/2009 15:15

Report Date: 5/8/2009

Sample ID#: 09970897  
Sample Source: Grab  
Client Sample ID: EB-4, S-4, 4.5'-6.0'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 18:48		SW 8270D	PMV

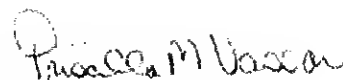
## QC Data by Sample:

Sample ID: 09970897

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	85	% Rec.	2755
Terphenyl-d14	74	% Rec.	2755
Nitrobenzene-d5	100	% Rec.	2755

Reviewed by:

  
Priscilla Vassar

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304-755-0536

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Page 2 of 2

West 19th Street : PAR Industrial Park  
P.O. Box 335 Nitro, WV 25143

Phone: (304) 755-0536  
Fax: (304) 755-1982

Results to be faxed? ☒ Yes ☐ No

[illegible]



# CHAIN OF CUSTODY RECORD

**AC&S, Incorporated**  
 Analytical Services Division  
 West 19th Street PAR Industrial Park  
 P.O. Box 335 Nitro, WV 25143  
 Phone: (304) 755-0536  
 Fax: (304) 755-1982

Project Name: RAILROAD TRUSSEL  
 Client Name: AMERICAN GEOTECH, INC.  
 Project #: \_\_\_\_\_

Company: 601 OHIO AVE.  
 Address: CHAS., WV  
 City: 304-340-4277  
 State: WV Zip Code: 25302  
 Phone: 304-340-4277  
 Fax: 304-340-4278  
 P.O. #: \_\_\_\_\_  
 Results to be faxed? ☒ Yes / ☐ No

AC&S Sample ID	Client Sample Description	COMPOSITE		Sample Date	Sample Time	Number of Containers	Container Type? Plastic (P) or Glass (G)	Sample Matrix	Preservative						Turn Around Time:	Sample Status Upon Arrival:	
		G	R						A	B	4°C	None	HNO <sub>3</sub>	NaOH			HCL
9910882	B-1, 5-1, 0'-1.5'	✓		4/30/09	9:15	1	G	5012	✓							ANALYSIS REQUESTED 3-VOC TOTAL CHLORIDE	
9910883	B-1, 5-2, 2.5'-4'	✓			9:25	1			✓								
9910884	B-1, 5-3, 5'-7'	✓			9:35	1			✓								
9910885	B-1, 5-4, 7.5'-9'	✓			9:45	1			✓								
9910886	B-2, 5-1, 0'-2'	✓			10:00	1			✓								
9910887	B-2, 5-2, 2.5'-4.5'	✓			10:10	1			✓								
9910888	B-2, 5-3, 5'-7'	✓			10:20	1			✓								
9910889	B-2, 5-4, 7.5'-9.5'	✓			10:30	1			✓								
9910890	B-3, 5-1, 0'-2'	✓			10:50	1			✓								
9910891	B-3, 5-2, 2.5'-4.5'	✓			11:00	1			✓								
9910892	B-3, 5-3, 5'-7'	✓			11:15	1			✓								
9910893	B-3, 5-4, 7.5'-9.5'	✓			11:30	1			✓								
9910894	B-4, 5-1, 0'-1.5'	✓			1:00	1			✓								
Relinquished By: <u>Best</u>									Received By: <u>4/30/09</u>						Date: <u>4/30/09</u> Time: <u>15:15</u>		
Relinquished By: _____									Received By: _____						Date: _____ Time: _____		
Relinquished By: _____									Received By: _____						Date: _____ Time: _____		

Comments: \_\_\_\_\_  
 Sample's Signature: Joe Z...



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Risk Assessment

## Report of Analysis

**Name:** American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

**Sample ID#:** 09970917  
**Sample Source:** Grab  
**Client Sample ID:** EB-5, S-3, 4'-6'  
**Site:** City of Charleston Railroad Trussel

**Sample Date:** 5/1/2009 10:15  
**Receipt Date:** 5/1/2009 12:50  
**Report Date:** 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 20:55		SW 8270D	PMV

## QC Data by Sample:

Sample ID: **09970917**

Report Date: **5/8/2009**

QC Type	Result	Units	Batch
2-Fluorobiphenyl	54	% Rec.	2758
Terphenyl-d14	70	% Rec.	2758
Nitrobenzene-d5	79	% Rec.	2758

Reviewed by:

*Priscilla M Vassar*

Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals - Laboratory Services - Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970916  
Sample Source: Grab  
Client Sample ID: EB-5, S-2, 2'-4'  
Site: City of Charleston Railroad Trussel

Sample Date: 5/1/2009 10:05  
Receipt Date: 5/1/2009 12:50  
Report Date: 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles Total Cresol	ND	mg/kg	1.5	05/07/09 20:13		SW 8270D	PMV

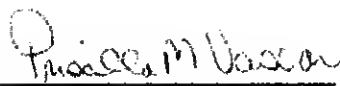
## QC Data by Sample:

Sample ID: 09970916

Report Date: 5/8/2009

QC Type	Result	Units	Batch
2-Fluorobiphenyl	59	% Rec.	2757
Terphenyl-d14	53	% Rec.	2757
Nitrobenzene-d5	64	% Rec.	2757

Reviewed by:



Priscilla Vassar

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P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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\* = Above Specified Limit

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# AC & S, Incorporated

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Specialty Chemical - Laboratory Services - Full Turnkey Testing

## Report of Analysis


Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample Date: 5/1/2009 09:55  
Receipt Date: 5/1/2009 12:50  
Report Date: 5/8/2009

Sample ID#: 09970915  
Sample Source: Grab  
Client Sample ID: EB-5, S-1, 0'-2'  
Site: City of Charleston Railroad Trussel

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
<b>Semi Volatiles</b>							
1,2,4,5-Tetrachlorobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
1,3,5-Trinitrobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
1,4-Naphthoquinone	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
1,4-Phenylenediamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
1-Naphthylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,3,4,6-Tetrachlorophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,4,5-Trichlorophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,4,6-Trichlorophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,4-Dichlorophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,4-Dimethylphenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,4-Dinitrophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,4-Dinitrotoluene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,6-Dichlorophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2,6-Dinitrotoluene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Acetylaminofluorene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Chloronaphthalene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Chlorophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Methyl-4,6-dinitrophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Methylnaphthalene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Naphthylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Nitroaniline	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Nitrophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
2-Picoline	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
3,3'-Dichlorobenzidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
3,3'-Dimethylbenzidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
3-Methylcholanthrene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

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# AC & S, Incorporated

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Specialty Chemical • Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970915  
Sample Source: Grab  
Client Sample ID: EB-5, S-1, 0'-2'  
Site: City of Charleston Railroad Trussel

Sample Date: 5/1/2009 09:55  
Receipt Date: 5/1/2009 12:50  
Report Date: 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
<b>Semi Volatiles</b>							
3-Nitroaniline	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Aminobiphenyl	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Bromophenyl phenyl ether	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Chloro-3-methylphenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Chloroaniline	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Chlorophenyl phenyl ether	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Nitroaniline	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Nitrophenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
4-Nitroquinoline-1-oxide	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
5-Nitro-o-Toluidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
a,a'-Dimethylphenethylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Acenaphthene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Acenaphthylene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Acetophenone	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Aniline	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Anthracene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Azobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzo(a)anthracene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzo(a)pyrene	0.63	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzo(b)fluoranthene	1.82	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzo(ghi)perylene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzo(k)fluoranthene	1.75	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzoic Acid	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Benzyl Alcohol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV

Reviewed by:

*Priscilla M Vassar*

Priscilla Vassar

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Specialty Chemicals - Laboratory Services - Risk Assessment

## Report of Analysis

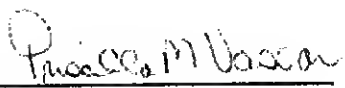
Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970915  
Sample Source: Grab  
Client Sample ID: EB-5, S-1, 0'-2'  
Site: City of Charleston Railroad Trussel

Sample Date: 5/1/2009 09:55  
Receipt Date: 5/1/2009 12:50  
Report Date: 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
<b>Semi Volatiles</b>							
Bis (2-chloroethyl) ether	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Bis (2-ethylhexyl) phthalate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Bis(2-chloroethoxy)methane	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Bis(2-chloroisopropyl)ether	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Butyl benzyl phthalate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Carbazole	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Chrysene	1.12	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Dibenzo(a,h)anthracene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Dibenzofuran	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Diethyl phthalate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Dimethyl phthalate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Di-n-butyl phthalate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Di-n-octyl phthalate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Diphenylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Ethyl Methanesulfonate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Fluoranthene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Fluorene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Hexachlorobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Hexachlorobutadiene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Hexachlorocyclopentadiene	ND	mg/kg	1	05/07/09 20:13		SW 8270D	PMV
Hexachloroethane	ND	mg/kg	1	05/07/09 20:13		SW 8270D	PMV
Hexachloropropene	ND	mg/kg	1	05/07/09 20:13		SW 8270D	PMV
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Isophorone	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Isosafrole	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
m/p-Cresol	ND	mg/kg	1	05/07/09 20:13		SW 8270D	PMV

Reviewed by:

  
Priscilla Vassar

AC&S, Inc.  
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# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemical Laboratory Services • Bulk Tank Cleaning

## Report of Analysis

Name: American Geotech  
Ryan Jackson  
601 Ohio Avenue  
Charleston, WV 25302

Sample ID#: 09970915  
Sample Source: Grab  
Client Sample ID: EB-5, S-1, 0'-2'  
Site: City of Charleston Railroad Trussel

Sample Date: 5/1/2009 09:55  
Receipt Date: 5/1/2009 12:50  
Report Date: 5/8/2009

Parameter	Sample Result	Units	MDL	Analysis Start	Analysis End (If Applicable)	Method	Analyst
Semi Volatiles							
m-Dinitrobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Methapyrilene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Methyl Methanesulfonate	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Naphthalene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Nitrobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosodiethylamine	ND	mg/kg	1	05/07/09 20:13		SW 8270D	PMV
N-Nitrosodimethylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosodi-n-butylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitroso-di-n-propylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosodiphenylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosomethylethylamine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosomorpholine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosopiperidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
N-Nitrosopyrrolidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
o-Cresol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
o-Toluidine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
p-(Dimethylamino)azobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Pentachlorobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Pentachloronitrobenzene	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Phenacetin	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Phenanthrene	1.03	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Phenol	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Pyrene	1.61	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Pyridine	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Safrole	ND	mg/kg	0.5	05/07/09 20:13		SW 8270D	PMV
Total Cresol	ND	mg/kg	1.5	05/07/09 20:13		SW 8270D	PMV

Reviewed by:

*Priscilla M Vassar*

Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.



# AC & S, Incorporated

Serving the chemical industry since 1986

Specialty Chemicals • Laboratory Services • Bulk Tank Cleaning

## QC Data by Sample:

Sample ID: **09970915**

Report Date: **5/8/2009**

QC Type	Result	Units	Batch
2,4,6-Tribromophenol	18	% Rec.	2756
2-Fluorobiphenyl	25	% Rec.	2756
2-Fluorophenol	42	% Rec.	2756
Nitrobenzene-d5	21	% Rec.	2756
Phenol-d5	39	% Rec.	2756
Terphenyl-d14	21	% Rec.	2756

Reviewed by:

Priscilla Vassar

AC&S, Inc.  
P.O. Box 335  
Nitro, WV 25143  
304-755-0536

ND = Not Detected  
\* = Above Specified Limit

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CHAIN OF CUSTODY RECORD

Page 1 of 1

ACGS, Incorporated  
Analytical Services Division

West 19th Street PAR Industrial Park  
P.O. Box 335 Nitro, WV 25143

Phone: (304) 755-0536  
Fax: (304) 755-1982

Project Name: RAILROAD TAVUSSEL Project #: \_\_\_\_\_  
Company: AMERICAN GEOTECH, INC.  
Client Contact: RYAN JACKSON  
Address: 601 OHIO AVE.  
City: CHAS. State: WV Zip Code: 25302  
Phone: 340-4277 Fax: 340-4278  
P.O. #: \_\_\_\_\_ Email: \_\_\_\_\_  
Data Handling: (fax) / email (please circle one)

Turn Around Time:  
Same day \_\_\_\_\_  
24 Hours \_\_\_\_\_  
48 Hours \_\_\_\_\_  
3 Days \_\_\_\_\_  
4 Days \_\_\_\_\_  
☒ Standard

Sample Status Upon Arrival:  
Temperature: \_\_\_\_\_ °C  
pH: \_\_\_\_\_

ANALYSIS REQUESTED

Preservative

None \_\_\_\_\_  
HNO<sub>3</sub> \_\_\_\_\_  
NaOH \_\_\_\_\_  
HCL \_\_\_\_\_  
H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_  
Na<sub>2</sub>SO<sub>3</sub> \_\_\_\_\_  
Other \_\_\_\_\_

Sample Matrix \_\_\_\_\_  
Container Type? Plastic (P) or Glass (G) \_\_\_\_\_

Number of Containers \_\_\_\_\_

Sample Time \_\_\_\_\_

Sample Date \_\_\_\_\_

COMPOSITE \_\_\_\_\_

Client Sample Description

AC&S Sample ID

\_\_\_\_\_

\_\_\_\_\_

TOTAL GEOTECH

S-VOL

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Comments:

Date: 5/1/09 Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: 5/1/09 Time: 12:50

Relinquished By: Joe Finner

Relinquished By: \_\_\_\_\_

Relinquished By: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Received By: \_\_\_\_\_

Sampler's Signature: Joe Finner

